PTO/SB/05 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Attorney Docket No. VTW-010DV2 UTILITY First Inventor **Charles Forbes** PATENT APPLICATION ACTIVE MATRIX THIN FILM TRANSISTOR TRANSMITTAL Title ARRAY BACKPLANE (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. LL982740955US MS Patent Application **APPLICATION ELEMENTS** Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original, and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission Х 8. 2. (if applicable, all necessary) See 37 CFR 1.27. X Specification 43 [Total Pages Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: Descriptive title of the invention Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or Statement Regarding Fed sponsored R & D Reference to sequence listing, a table. C. Statements verifying identity of above copies or a computer program listing appendix

Background of the Invention ACCOMPANYING APPLICATION PARTS - Brief Summary of the Invention Brief Description of the Drawings (if filed) 9. Assignment Papers (cover sheet & document(s)) - Detailed Description 37 CFR 3.73(b) Statement - Claim(s) 10. Power of - Abstract of the Disclosure (when there is an assignee) Attorney 4. X Drawing(s) (35 U.S.C. 113) (Total Sheets 16 11. English Translation Document (if applicable) Information Disclosure Copies of IDS 5. Oath or Declaration [Total Sheets 6 12. Statement (IDS)/PTO-1449 Newly executed (original or copy) 13. **Preliminary Amendment** Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) Return Receipt Postcard (MPEP 503) X 14 (Should be specifically itemized) Certified Copy of Priority Document(s) 15 **DELETION OF INVENTOR(S)** (if foreign priority is claimed) Signed statement attached deleting inventor(s) named in the prior application, Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). 16 Applicant must attach form PTO/SB/35 or its equivalent. see 37 CFR 1.63(d)(2) and 1.33(b). 17. Other: 6. X Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation x Divisional Continuation-in-part (CIP) of prior application No.: 10/300514 Fetsum Abraham Prior application information: Examiner Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS х Customer Number: 00959 OB Correspondence address below LAHIVE & COCKFIELD, LLP Name Anthony A. Laurentano 28 State Street Address City **Boston** State MA Zip Code 02109 (617) 227-7400 Country US Telephone Fax (617) 742-4214 Name (Print/Type) David R. Burns Registration No. (Attorney/Agent) 46.590 Signature Date December 1, 2003 I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EL982740955US,

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EL982740955US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: December 1, 2003

Signature: Varil RBurn

(David R. Burns)

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PTO/SB/17 (10-03)

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			Complete if Known				
FEE TRANSMITTAL	ì				1 1 1 1 2 1 4 1 1 1		
for FY 2004		Filing Date			Concurrently Herewith	Concurrently Herewith	
		First Named Inventor		Inven	ntor Charles Forbes	Charles Forbes	
Effective 10/01/2003, Patent fees are subject to annual revision.	Examiner Name			me	F. Abraham		
X Applicant claims small entity status. See 37 CFR 1.27			it		2826		
TOTAL AMOUNT OF PAYMENT (\$) 385.00			ey Doo	ket No). VTW-010DV1		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Credit Money		ODITI	20101		CALCOLATION (continued)		
Check Card Order Other None 3. ADDITIONAL FEE							
X Deposit Account:			C11	Fadle.			
Deposit Account 12-0080	Fee	Entity Fee	Fee	Entity Fee	- For Donoriution		
Number	Code	(\$)	Code	(\$)	Fee Description	Fee Paid	
Deposit Account Lahive & Cockfield, LLP	1051	130	2051	65	Surcharge – late filing fee or oath		
Name The Director is authorized to: (check all that apply)	1052	50	2052	25	Surcharge – late provisional filing fee or cover sheet.		
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130			
					Non-English specification		
X Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812		For filing a request for ex parte reexamination Requesting publication of SIR prior to		
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Examiner action		
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month		
1. BASIC FILING FEE	1252	420	2252		Extension for reply within second month		
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid	1253	950	2253	475	Extension for reply within third month		
Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month		
1001 770 2001 385 Utility filing fee 385.00	1255	2,010	2255		Extension for reply within fifth month		
1002 340 2002 170 Design filing fee 1003 530 2003 265 Plant filing fee	1401	330 330	2401 2402	165 165	Notice of Appeal Filing a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 385.00	1452	110	2452	55	Petition to revive – unavoidable		
368131AE(1) (#) 366.65	1453	1,330	2453	665	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Extra Fee from	1501	1,330	2501		Utility issue fee (or reissue)		
Claims below Fee Paid	1502	480	2502	240	Design issue fee		
Total Claims 1 -20** = x = 0.00 Independent 4 2** -	1503	640	2503	320	Plant issue fee		
Claims	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity Fee	1806	180	1806	180	Submission of Information Disclosure Stmt Recording each patent assignment per		
Code (\$) Code (\$)	8021	40	8021	40	property (times number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	V	
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))		
1204 86 2204 43 ** Reissue independent claims	1801	770	2801	385	Request for Continued Examination (RCE)		
over original patent	1802	900	1802	900	Request for expedited examination		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	Other	fee (spe	i cify)		of a design application		
SUBTOTAL (2) (\$) 0.00		iced by E		ing Fee	Paid SUBTOTAL (3) (\$)	0.00	
**or number previously paid, if greater, For Reissues, see above							
SUBMITTED BY (Complete (if applicable))							
Name (Print/Type) David R. Burns Registration No. (Attorney/Agent) 46,590 Telephone (617) 227-7							
Signature Date December 1, 2						003	
December 1, 2003							

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Dated: December 1, 2003

(David R. Burns)